

Bonneville Power Administration

Fish and Wildlife Program FY99 Proposal Form

How this form is structured

There are ten major sections to this form. Sections 1 through 5 are database-style fields in which specific information is being sought, so your input is restricted to the gray boxes below. *The boxes are pointers to indicate where to type; they will grow as you type more text, and they won't print as gray boxes.* These sections include: General Administrative Information; Key Words; Objectives, Tasks and Schedules; Relationship to Other Bonneville Projects; and Budget.

In Sections 1 through 5, each field is briefly described on the form itself, and for some fields more tips are shown in the status bar (bottom of the screen). For tables where more rows may be needed than are provided, press Alt-R from within the table to add a row at the end.

Sections 6 through 10 accept a narrative format in which more open-ended questions are asked and you may respond at length in paragraph form. Descriptions are provided on the form. These sections include: Abstract, Description, Relationships to Other Projects, Personnel, Information/Technology Transfer.

Steps to complete the form

1. First, read the Guidelines to Proposals.
2. Second, save this form. For ongoing projects, use your project number.DOC (example: 8909900.DOC). For new proposals, use a filename other than BLANK.DOC, preferably, your agency acronym and your initials (example: NMFSWS1.DOC).
3. Press Tab to move to the first field (Title of Project), and start typing.
NOTE: When you exit the Project Title or Project Number fields, your screen may display a "Header" box briefly. The form is updating itself, and will continue normally.
4. Fill in all fields (gray boxes) pressing Tab to advance from one field to the next. Then fill in narrative input areas, pressing down arrow to advance.
5. Print the completed document.
6. Save the document to diskette and mail both paper and diskette to:
Bonneville Power Administration - EW
ATTN: Connie Little
FY99 Proposals
P.O. Box 3621
Portland OR 97208-3621

Call Jim Middaugh at the Northwest Power Planning Council (503) 222-5161 or (800) 222-3355 or email middaugh@nwppc.org if you have additional questions.

Proposals must be received to Bonneville by 5pm PST on Friday, January 23, 1998. Late proposals will not be reviewed for FY99 funding. This information will be the only material submitted for independent scientific review. It is essential that the relevant information be provided completely but concisely.

Section 1. General administrative information

Title of project. 75 characters or less; do not include the contractor name or acronym; use abbreviations if appropriate; start with action verbs, i.e., “Evaluate Coho...”, not “Evaluation of Coho”.

Restor/Enhance Trout Creek @ Ashwood Phase II 1998 Funding

Bonneville project number, if an ongoing project _____

Business name of agency, institution or organization requesting funding
Jefferson County Soil & Water Conservation District for Trout Creek Watershed Councilt

Business acronym (if appropriate) JCSWCD _____

Proposal contact person or principal investigator:

Name	Marie Horn
Mailing Address	243 SW 3rd St
City, ST Zip	Madras, Or 97741
Phone	(541)475-3144
Fax	(541)475-6793
Email address	

Subcontractors. List other agencies or entities that will receive funding under this project, either through sub-contracts managed by the project sponsor or, where multiple agencies are involved as joint sponsors, through primary contracts managed by Bonneville. If another entity will be responsible for the long term maintenance of the project, identify them here.

List one subcontractor per row; to add more rows, press Alt-R from within this table

Organization	Mailing Address	City, ST Zip	Contact Name

NPPC Program Measure Number(s) which this project addresses. Refer to 1994 Fish and Wildlife Program as amended in 1995; NPPC staff will proof this field and correct if necessary; separate multiple measure numbers with commas.

Section 7 7.6, 7.7

NMFS Biological Opinion Number(s) which this project addresses. If the project relates to the Kootenai Sturgeon Biological Opinion, the NMFS Hydrosystem Operations

Biological Opinion, or other Endangered Species Act requirements, enter the Action Number and Biological Opinion Title.

Other planning document references. If the project is called for in the National Marine Fisheries Service *Snake River Salmon Recovery Plan*, or in *Wy Kan Ush Me Wa Kush Wit*, the Anadromous Fish Restoration Plan of the Nez Perce, Umatilla, Warm Springs and Yakama tribes, in U.S. Forest Service or Bureau of Reclamation land management plans, or in local area subbasin or watershed plans, or in other planning documents, provide the name of the plan and reference citation where the need is identified.

If the project type is "Watershed" (see Section 2), reference any demonstrable support from affected agencies, tribes, local watershed groups, and public and/or private landowners, and cite available documentation.

Wy Kan Ush Me Wa Kush Wit , Trout Creek Assessment, Memorandums of Agreement: Natural Resources Conservation Service , Oregon Dept. of F&W
Landowners,landmangers in Trout Creek

Subbasin. List subbasin(s) where work is performed. Use commas to separate multiple subbasins. Coordination projects or those not affecting particular subbasins may omit this field.

Trout Creek Watershed

Short description. Describe the project in a short phrase (less than 250 characters). Give information that is not in the title. If possible start this field with an action verb (protect, modify, develop, enhance, etc.) rather than a noun (this project protects). There is room for a more detailed project abstract later in the narrative section, so please keep this answer short.

Stablize Streambanks, Improve water quality/quantity

Section 2. Key words

For identifying and sorting, mark key words below that most specifically describe this project. Under each heading (Programmatic Categories, Activities, Project Types), find the **one** item that most applies to your project, and mark it with an X in the Mark column. If other items in the same heading also apply, mark them with a plus sign or asterisk.

Mark	Programmatic Categories	Mark	Activities	Mark	Project Types
X	Anadromous fish	X	Construction	X	Watershed
+	Resident fish		O & M		Biodiversity/genetics
+	Wildlife		Production		Population dynamics
	Oceans/estuaries		Research		Ecosystems
	Climate		Monitoring/eval.		Flow/survival
	Other	+	Resource mgmt		Fish disease

+	Planning/admin.		Supplementation
	Enforcement	+	Wildlife habitat en-
	Acquisitions		hancement/restoration

Other keywords. If there are other key words that would help identify your project, enter them below, separated by commas; example key words: DNA, stock identification, life history, sampling, modeling, nutrient dynamics, predation, hydrodynamics, gas bubble disease, disease names, hatchery-wild interactions, ecological interactions.
Steelhead , a candidate species for listing on the ESA

Section 3. Relationships to other Bonneville projects

Describe any interdependencies with other projects funded under the Fish and Wildlife Program. Don't include general relationships to other projects, but target those that depend on this project being funded, or vice versa. There is room in Section 7 below to comment on other relationships or to describe these more fully.

If you need more rows, press Alt-R from within this table.

Project #	Project title/description	Nature of relationship
-9366	NE Or. Screens/Passage	Trout Creek Watershed plan
940200	T.C. Habitat Restoration	Trout Creek Watershed plan
9303000	Buckhollow W.Enhancement	Basin plan
9405400	Bull Trout Studies C/NE Org.	Stock status

Section 4. Objectives, tasks and schedules

This section has three parts: a) Objectives and tasks table, b) Objective schedules and costs table, c) other schedule fields. Instructions for each part follow the headings.

Objectives and tasks

Briefly describe measurable objectives and the tasks needed to complete each objective. Use Column 1 to assign numbers to objectives (for reference in the next table), and Column 3 to assign letters to tasks. Use Columns 2 and 4 for the descriptive text. Objectives do not need to be listed in any particular order, and need only be listed once, even if there are multiple tasks for a single objective. List only one task per row; if you need more rows, press Alt-R from within this table.

Obj 1,2,3	Objective	Task a,b,c	Task
1	decrease sedimentation	a	stabilize stream banks
2	Increase riparian vegetation	b	willow & native vegetation
3	Improve wildlife habitat	c	improve riparian areas

Objective schedules and costs

Partition overhead, administrative, support, and any other common costs shared among objectives. The percentages for all objectives should total 100%. Enter just the objective numbers from Column 1 in the above table. Enter start and end dates for each objective using the mm/yyyy format (e.g. 05/2002 for May, 2002).

If you need more rows, press Alt-R. **Press Alt-C to calculate total.**

Objective #	Start Date mm/yyyy	End Date mm/yyyy	Cost %
1	5/1998	4/1999	85.00%
2	5/1998	4/1999	15.00%
			TOTAL 100.00%

Schedule constraints. Identify any constraints that may cause schedule changes.

Describe major milestones if necessary.

None foreseen

Completion date. Enter the last year that the project is expected to require funding.

1999

Section 5. Budget

This section has two tables: 1) FY99 budget by line item, and 2) Outyear costs.

Instructions for each part follow the heading.

FY99 budget by line item

List FY99 budget amounts for each category. If an item needs more explanation, provide it in the Note column. If the project uses PIT tags, include the cost (\$2.90/tag). **Press**

Alt-C to calculate total.

Item	Note	FY99
Personnel	Project Manager	\$4,800
Fringe benefits		
Supplies, materials, non-expendable property		
Operations & maintenance		
Capital acquisitions or improvements (e.g. land,	Camera: photo points (before & after records	\$ 400

buildings, major equip.)		
PIT tags	# of tags:	
Travel	Project manager	\$1,200
Indirect costs	clerical support: telephone, copying, postage, film/developing	\$2,400
Subcontracts	Excavating, plantings, rock & placement	\$48,000
Other		
TOTAL		\$56,800

Outyear costs

List budget amounts for the next four years, and the estimated percentage of those costs for operations and maintenance (O&M).

Outyear costs	FY2000	FY01	FY02	FY03
Total budget				
O&M as % of total				

Section 6. Abstract

A condensed description to briefly convey to other fish and wildlife scientists, managers and non-specialists the background, objectives, approach and expected results. **In under 250 words**, include the following:

- Specific items in any solicitation being addressed
- Overall project goals and objectives
- Relevance to the 1994 Columbia Basin Fish and Wildlife Program (benefit to fish and wildlife)
- Methods or approach based on sound scientific principles
- Expected outcome and time frame
- How results will be monitored and evaluated

The Trout Creek Watershed Council is developing a long range plan to reduce sedimentation, reduce temperature and increase water quantity and quality. This will be accomplished by riparian restoration projects and working with private landowners to improve livestock management and reduce the impact on riparian vegetation.

Bank stabilization will be done by using bank sloping, juniper and rock riprap where feasible. Vegetation, utilizing willow plantings, established willows (with root wads) and native plants, will be used to stabilize and enhance streambanks. The improvements will be decreased sedimentation, improved water quantity and quality, enhanced steelhead and redband trout habitat. The project is expected to be completed in May 1999.

The Trout Creek Council, JCSWCD and Oregon Dept. of Fish and Wildlife along with private landowners/landmanagers will be responsible for monitoring and evaluating the project. Funds will be solicited for monitoring and data recording.

Section 7. Project description

This full description of the project should be in sufficient detail to include the following information under headings a through g (**maximum of 10 pages for entire project description**):

a. Technical and/or scientific background. The overall problem should be clearly identified with background history and scientific literature review, if a research project. Location should be specific, if relevant. Goals and objectives of the 1994 Fish and Wildlife Program (FWP), NMFS Biological Opinion, or other plans in relation to the proposed project should be stated and described in some detail. Indicate whether the project mitigates losses in place, in kind, or if out-of-kind mitigation is being proposed.

Show how the proposed work is a logical component of an overall conceptual framework or model that integrated knowledge of the problem. The most significant previous work history related to the project, including work of key project personnel on any past or current work similar to the proposal, should be reviewed. All work should be adequately referenced and listed at the end of this field.

Trout Creek has a history of flashiness that leaves damaged riparian areas in its wake. The flashiness has resulted from timber harvest practices, erosion in the headwaters, degraded riparian areas and juniper encroachment in the uplands. After the 1964 flood, the Corps of Engineers placed berms in Trout Creek. There have been resultant consequences from the berms washing out and eroding. The Corps has been contacted to participate in the restoration efforts in Trout Creek. The goal of the Watershed Council and JCSWCD is to restore and revegetate the riparian areas to develop a proper functioning watershed, with retention of water being released slowly over a period of time. The restoration goals are to stabilize streambanks and revegetate the areas with native plants. The Watershed Council is working with local landowners/landmanagers to improve livestock management practices to eliminate impact on riparian vegetation. The Oregon Dept. of F&W has worked extensively in the Trout Creek area to restore and enhance steelhead and redband trout habitat and increase production of same.

Jefferson County SWCD has a published Trout Creek Watershed Resources Inventory and Problem Assessment. In 1984 the Dept. of F&W and twenty-one landowners, with funding from BPA did a project that included 140 miles of livestock fencing, 750 cu. yds of spawning gravel, 4,956 instream structures, 21,000 ft. of juniper riprap, 10 off-stream livestock water developments, 17 irrigation-pump fish screens and 13 rotary fish screens for irrigation diversion ditches.

Funding from the Governors Watershed Enhancement Board (GWEB), Bureau of Reclamation and Corps of Engineers is also being sought for this project. The Bureau of Reclamation (BOR) funded an on-site evaluation of projects needed and the results will be forthcoming. The evaluation will be used by the Watershed Council to develop a priority list. The Watershed Council is developing a Long Range Plan and an Action Plan using these assessments, evaluations and studies to address uplands, riparian, grazing and timber issues in the watershed.

The positive benefits of this restoration will be to decrease sedimentation and temperature. It will increase the fish spawning and rearing habitat for steelhead.

b. Proposal objectives. Specific, measurable objectives or outcomes for the project should be presented concisely in a numbered list. Research proposals must concisely state the hypotheses and assumptions necessary to test these. Non-scientific projects must also state their objectives. Clearly identify any products (reports, structures, etc.) that would result from this project. For example, an artificial production program may state the species composition and numbers to be produced, their expected survival rates, and projected benefits to the FWP. A land acquisition proposal may state the conservation objectives and value of the property, the expected benefits to the FWP, and a measurable goal in terms of production. Methods and tasks (in heading e, below) are to be linked to these objectives and outcomes (by number).

1. The proposed objective is to reduce sedimentation:

a. Bank stabilization will decrease sedimentation and improve fish spawning and rearing grounds.

3. The proposed objective is to increase vegetation:

a. Plant willows (a native to Trout Creek) and vegetation

b. Bank stabilization structures will be placed to capture sedimentation that will increase the growth and stability of the vegetation and build up banks.

c. Rationale and significance to Regional Programs. The rationale behind the proposed project should be presented and project objectives and hypotheses related as specifically as possible to the FWP objectives and measures or to other plans. You should make a convincing case for how the proposed work will further goals of the FWP. Relevant projects in progress in the Columbia Basin and elsewhere should be listed and discussed in relation to the proposed project. Arrangements should be identified and documented for cooperation and synergistic relationships among the proposed project, *other project proposals*, and existing projects. Any particularly novel ideas or contributions offered by the proposed project should be highlighted and discussed.

Type here (provide answers in paragraph form)

The Trout Creek Watershed is part of the Middle Deschutes drainage in the Deschutes Basin. There is a Deschutes Basin group that the watershed Councils and JC SWCD participates in. The goal of these groups are to have a Basin wide approach to watershed health.

d. Project history (for continuing projects). If the project is continuing from a previous year, the history must be provided. This includes projects that historically began as a different numbered projects (identify number *and short title*). For continuing projects, the proposal primarily will be an update of this section. List the following:

- project numbers (if changed)
- adaptive management implications

- project reports and technical papers - years underway (see attached spreadsheet)
- summary of major results achieved - past costs (see attached spreadsheet)

Type here (provide answers in paragraph form) N/A

e. Methods. How the project is to be carried out based on sound scientific principles should be described (this is applicable to all types of projects). Include scope, approach, and detailed methodology. If methods are described in detail in another document, summarize here and cite reference. The methods should include, as appropriate, but not be limited to such items as:

- tasks associated specifically with objectives
- critical assumptions
- description of proposed studies, experiments, treatments or operations in the sequence that they are to be carried out
- any special animal care or environmental protection requirements
- any risks to habitats, other organisms, or humans
- justification of the sample size
- methods by which the data will be analyzed
- methods for monitoring and evaluating results
- kinds of results expected

Each proposer should complete the methods section with an objective assessment of factors that may limit success of the project and/or critical linkages of the proposal with other work (e.g., a smolt monitoring program, etc.).

Type here (provide answers in paragraph form)

The projects in Trout Creek will be coordinated efforts to bring a continuity to restored/enhanced sections in the riparian areas. BPA has invested funding for previous projects for fencing, streambank stabilization and vegetation. The proposed project will add one fourth of a mile to this continuity. The site is a highly eroded bank and the proposal is to reshape the bank with material found at the site and to utilize established willows, by using the whole plant/rootwad to stabilize the bank. The bank will be reshaped and replanted, keeping in mind the natural meander of the creek. The Dept. of F&W is working with the Council for placement, design and critical timing for fish protection. The Bureau of Reclamation finished an on-site evaluation of some of the major concerns of the landowners. This site was a high priority. The landowner does not graze this riparian area, he has leased some of this land to upland bird hunters.

The critical assumptions are that with this restoration effort, sedimentation will be reduced, fish habitat will improve and water temperature will decrease.

Landowners, ODFW, Trout Creek Watershed Council and Jefferson County Soil and Water Conservation District will be responsible for monitoring and evaluating the results.

Results from projects in the Trout Creek Watershed will be gathered and compiled into a usable data base.

f. Facilities and equipment. All major facilities and equipment to be used in the project should be described in sufficient detail to show adequacy for the job. The proposal should indicate whether there are suitable (based on contemporary standards) field equipment, vehicles, laboratory and office space and equipment, life support systems for organisms, and computers, for example. Any special or high-cost equipment to be purchased with project funds should be identified and justified. Reference to other proposals is allowed but note that limitations of those proposals could effect the evaluation of the ones citing them.

Type here (provide answers in paragraph form)

The project will be facilitated and administered by the Jefferson County Soil & Water Conservation District and will furnish space/computer use and clerical assistance to the project manager.
Major equipment for excavating and rock placement will be sub-contracted.
Madras High Forestry and Vo-Ag classes and Middle School students will be contacted for volunteers to assist with the vegetative plantings.
Corps may furnish equipment for any of the project that will involve the Corps.

g. References. (Not included in 10-page limit for this section.) Provide complete citations to all publications referred to in Sections 6a-f. List in order: author(s), date, title, report number, publisher or agency, location. References will not be read by reviewers; the substance of any reference should be described in the text and the source cited. Sample citation:

Rondorf, D.W., and K.F. Tiffan. 1997. Identification of the spawning, rearing and migratory requirements of fall chinook salmon in the Columbia River Basin. Annual Report 1995. DOE/BP-21078-5, Bonneville Power Administration, Portland, Oregon.

Type here (provide answers in paragraph form)

Section 8. Relationships to other projects

Indicate how the project complements or includes collaborative efforts with other projects; put the work into the context of other work funded under the FWP. If the proposed project requires or includes collaboration with other agencies, organizations or scientists, or any special permitting to accomplish the work, such arrangements should be fully explained. If the relationship with other proposals is unknown or is in conflict with another project, note this and explain why.

This is not intended to duplicate the Relationships table in Section 3. Instead, it allows for more detailed descriptions of relationships, includes non-interdependent relationships, and includes those not limited to specific Bonneville projects.

Type here (provide answers in paragraph form)

In 1985 BPA funded a project in Trout Creek through the Oregon Dept. of Fish & Wildlife for riparian restoration/enhancement. The ODFW has continued to enhance this project with Access & Habitat (A&H) and Restoration and Enhancement (R&E) program funds.

The Corps of Engineers has been contacted concerning the erosion and washout of berms they placed in Trout Creek in 1965.

Private land owners and land managers are working with and serve on the Board of Directors of the Trout Creek Watershed Council. This Watershed Council is developing an Action Plan to address all *issues of concern* found in the watershed. Natural Resources Conservation Service is developing new or up-dated resource management plans that will identify concerns for the “Environmental Quality Incentive Program” (EQIP) for landowners in Trout Creek. The JCSWCD has hired a resource management planner for additional resource management plans. Once these plans are developed they will be used as a basis to implement projects in the watershed that will compliment each other for a whole-watershed health approach.

Ochoco Lumber and other private timber managers are working with the Watershed Council to address timber harvest management plans. US Forest Service, Oregon Dept of Forestry and ODFW serves as an advisor to the Council. Members of the Council are also members of the Cattleman’s Association and will advise on livestock management concerns.

The Watershed Council, along with the JCSWCD will act as a catalyst to bring together concerned landowners/landmanagers and agencies to work towards building Trout Creek into a proper functioning condition watershed with economic benefits to landowners, landmanagers, with improved habitat for fish/wildlife.

Section 9. Key personnel

Include names, titles, FTE/hours, and one-page resumes for key personnel (i.e. principal investigator, project manager), and describe their duties on the project. Emphasize qualifications for the proposed work. Resumes should include name, degrees earned (with school and date), certification status, current employer, current responsibilities, list of recent previous employment, a paragraph describing expertise, and up to five recent or especially relevant publications or job completions.

Type here (provide answers in paragraph form)

Project Manager:

Marie Horn, *Watershed Coordinator*.

Marie also works as an *Office Manager* for the JCSWCD.

Current responsibilities are to administer all funding, record keeping, payroll, grant applications and reports due, for project updates and completion.

She works as Office Manager and Watershed Coordinator until a full-time Coordinator will be needed.

Marie is hired and supervised by the Jefferson County SWCD and gets daily direction and supervision from the Resource Conservationist of Natural Resource Conservation Service.

Marie will work closely with Tom Nelson, ODFW (Trout Creek Project), who has extensive experience with fish & wildlife projects in Jefferson County.

Marie works with the Trout Creek Watershed Council to develop priority areas and Action Plans to address the concerns unique to Trout Creek.

Marie has 25 years experience.

As a Watershed Coordinator she has contact and shares information with various agencies, other Watershed Coordinators, ODFW, NRCS, ODA, Oregon Trout, and agencies/organizations concerned with conservation efforts in watersheds.

As a Watershed Coordinator and SWCD Office Manager, Marie has access to information, project types and results of watershed restoration efforts on-going in BuckHollow by Ron Graves. The efforts being made there are the desires by the Trout Creek watershed Council to immutate for Trout Creek.

Section 10. Information/technology transfer

How will technology or technical information obtained from the project be distributed or otherwise implemented? Methods can include publication, holding of workshops, incorporation in agency standards or facilities, and commercialization.

Type here (provide answers in paragraph form)

Information will be shared by promoting the efforts of Watershed Council in Jefferson County. Public tours of projects will be scheduled. The OSU Extension Service has an educational project that will teach school age children and young adults about watershed projects and keeping watersheds healthy. JCSWCD will coordinate public tours with this educational outreach project.

The Watershed Coordinator shares and gathers information among Watershed Councils and Coordinators. Public news items on projects will be published. Workshops for the public, landowners and agencies will be developed that will teach and show a Proper Functioning Condition (PFC) watershed. All of the proposed projects will be working towards this goal.

Congratulations!

Thank you for completing the FY99 Proposal Form. Please print and save this file to diskette, and mail both to the address shown at the top of this document. To ensure a thorough review of your proposed work, this form will be screened for completeness. If it is not complete, it may be returned to you with a request for additional information.